Special Issue

State-of-Health Estimation of Batteries

Message from the Guest Editors

State-of-health (SOH) estimation of batteries remains a challenging goal. The typical behavior of lithium-ion batteries changes when the anode is doped with a high amount of silicon, highly affecting the accuracy of the estimation. There are novel chemistries worked on or being launched to the market, such as lithium-sulfur or sodium-ion batteries. Concepts of cloud battery management systems open new possibilities, especially in the trending area of machine learning and artificial intelligence. There are new and more demanding applications in the area of aerospace and second-life use. Moreover, 'smart' cells or packs are being proposed enhanced with additional sensors to provide extra information. These and more are making the topic of SOH estimation interesting and in high demand. Thus, we would like to encourage you to submit your contributions on the following SOH estimation topics covering:

- Modern lithium-ion batteries;
- Lithium-sulfur batteries;
- Sodium-ion batteries;
- Machine learning;
- Artificial intelligence;
- .....

Guest Editors

Dr. Vaclav Knap
Prof. Dr. Daniel Auger
Dr. Abbas Fotouhi

Deadline for manuscript submissions

closed (31 August 2025)

Batteries

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 6.6

mdpi.com/si/194230

Batteries
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
batteries@mdpi.com

mdpi.com/journal/batteries

Batteries

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 6.6

mdpi.com/journal/batteries

MDPI

About the Journal

Message from the Editor-in-Chief

Take the opportunity to publish your original scientific work or a review paper concerning battery materials, battery technology or battery application within this new open access journal. Along with material science, the journal also addresses engineering and multidisciplinary research topics, such as cell and system design or storage system integration. Publishing proffers visibility for the benefit of other experts and facilitates discussion of the research results within the field. You are invited to publish your work, read published papers and to participate in topical discussions.

Editor-in-Chief

Prof. Dr. Karim Zaghib
Department of Chemical and Materials Engineering, Concordia University, Montréal, QC H3G 1M8, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Electrochemistry) / CiteScore - Q1 (Electrical and Electronic Engineering)